

## (iii).—DEMARICATION.

27. The following statement shows the clearance of boundary lines and the erection of forest boundary marks performed during the year :—

No.	Division.	Length of Boundary demarcated.	Number of Cairns erected.		Amount spent.	Rate per Mile.	Remarks.
			Large.	Small.			
					Rs. a. p.	Rs.	
1	East Thána ...	10½	68	105	125 0 0	...	
2	West Thána ...	41½	446	13	276 0 0	...	Besides 1,440 stones planted.
3	Surat ...	17½	235	121	*2,822 0 0	...	* Include Rs. 1,333 on account of Dāngs.
4	Panch Mahāls ...	70½	3	74	515 0 0	...	Besides 1,447 tin plates were used as indicators of forest boundary.
	Total, 1893-94 ...	139½	752	313	3,738 0 0	26½	
	Total, 1892-93 ...	181	2,901	1,698	5,527 4 4	30½	

## (iv).—SURVEYS.

28. Last year details of work done by the Forest Survey Party of the Government of India with cost, rates, &c., were given, but these were for the Survey and not for the Forest year.

29. The Superintendent writes that 51·21 square miles of detailed 8" topographical survey were completed up to 30th June 1894. The amount debited for forest survey is Rs. 11,727-2-3. This would give a cost rate of Rs. 229 square miles, but this cannot be correct. In fact the difference in the two years is a bar to the record here of any useful figures.

## CHAPTER II.

## MANAGEMENT OF STATE FORESTS.

## I.—REGULATION AND MANAGEMENT.

## (a).—WORKING PLANS AND THEIR CONTROL.

30. The Working Plans Division was in charge of Mr. T. B. Fry, Deputy Conservator of Forests, during most of the year under report. Mr. Millett, Deputy Conservator of Forests, holding charge in addition to his own duties from 5th August 1893 to 4th November 1893 during Mr. Fry's absence on privilege leave and again from 10th May 1894 to the close of the year on the transfer of Mr. Fry to the Southern Circle.

31. Mr. Fry, who was Working Plans Officer for the old Northern Circle, continued to be Working Plans Officer for the two Circles after their separation and up to 1st January 1893. From that date, under Government Resolution No. 10144, dated 28th December 1892, he became Working Plans Officer, Northern Circle. As, however, the Working Plans Branch of the Central Circle had not been organized, Mr. Fry's head-quarters were fixed at Poona and, under Government Resolution No. 8106, dated 4th November 1893, his services as well as those of his establishment were lent to the Central Circle up to the Christmas vaca.

tion. Nearly the whole of the working season, thus curtailed, was employed in laying out the coupes of the coming year, only the last few weeks being available for marking off coupes in advance in the Bassein Range.

32. There are theoretically 284 blocks in the two Thána Divisions, but for various reasons 11 of these are not to be worked in 1894-95. Consequently 273 coupes were laid out during the season ready for working in the coming season and 90 coupes were laid out in advance in a less detailed way (*i. e.*, with small cairns at the principal angles only) in 13 blocks of Bhiwndi.

33. The following statement shows the extent to which the paper Working Plan has been marked out and realized on the ground up to date :—

Name of Range.	Number of Blocks.	Total Number of Coupes.	Number of Coupes marked out.	Number of Coupes exploited.	Number of Coupes to be worked in 1894-95.	Number of Coupes marked for future exploitation.	Number of Blocks in which Coupes for future exploitation are laid out.	Number of Coupes yet to be marked out.	Remarks.
<i>East Thána Division.</i>									
Bhiwndi ... ..	20	800	198	138	20	40	13	602	
Kalyán ... ..	16	640	119	103	16	...	...	521	
Murbád ... ..	20	800	104	89	15	...	...	696	
Shahápur and Khardi ...	53	2,120	259	211	48	...	...	1,861	1
Mokháda ... ..	12	480	60	49	11	...	...	420	
Váda ... ..	34	1,360	199	147	33	19	6	1,161	
<i>West Thána Division.</i>									
Silsette ... ..	10	400	63	53	10	...	...	337	
Bassein ... ..	23	920	281	165	24	92	16	639	
Máhim ... ..	35	1,400	256	219	35	2	1	1,144	
Dáhanu ... ..	39	1,560	279	240	39	...	...	1,281	
Umbargaon ... ..	18	720	121	103	18	...	...	599	
Talasri Mokháda ...	4	160	19	15	4	...	...	141	
	284	11,360	1,958	1,532	273	153	36	9,402	

34. It will be seen that the work to date has been from hand to mouth and that only some 150 coupes have been marked in advance out of 9,402 requiring to be so marked. This is no doubt due to the short working season available so long as coupes had also to be marked in the Dekkhan Divisions. But it must also be remembered that under any circumstances the incomplete state of settlement and the want of sanction to the paper scheme would have prevented much more rapid progress. Forest settlement is, however, now complete in 6 Ranges and the work of laying out advance coupes can now be pushed on.

35. The following statement shows the employment of time by the Working Plans surveyors :—

Percentage of time employed in		1892-93.	1893-94.
Working days (field and office work) ...		51	64
Sundays, holidays and leave ...		14	23
Travelling ... ..		23	10
Illness and delays ... ..		12	3

The increase in the proportion of working days and the decrease under the last two heads is most satisfactory.

36. The following is a statement of the work performed by the Working Plans Officer and his establishment during 1893-94 :—

No.	Range.	Total Forest area.	Number of Blocks per Range.	Number of Compartments actually laid out in 1893-94.	Average area of Compartments actually laid out.	Remarks.
	<i>East Thána.</i>	Acres.			Acres.	
1	Kalyán ...	35,037	16	16	46	
2	Murbád ...	90,295	20	15	49	
3	Bhiwandi ...	47,868	20	20	48	
4	Mokháda ...	35,891	12	11	55	
5	Khardi ...	157,143	53	48	60	
6	Shahápur ...					
7	Váda ...	76,219	34	33	54	
	Total ...	442,453	155	143	54	
	*Total during 1892-93 ...	339,545	124	132	53	* Excluding Váda Range and including Talasri Mahál of the Mokháda Range.
	<i>West Thána.</i>					
1	Sálsette ...	15,393	10	10	38	
2	Bassein ...	54,030	23	24	51	
3	Máhim ...	74,108	35	35	51	
4	Dáhánu ...	172,641	61	61	56	
5	Umbargaon ...					
	Total ...	316,171	129	130	49	† Including Váda Range and excluding the Talasri Mahál.
	†Total during 1892-93 ...	349,094	158	185	50	

37. It will be seen from the above that the area marked for exploitation falls short of the theoretical  $\frac{1}{40}$  of the "Forest Area." In fact after deducting the unworkable or climatic forest the area which should theoretically come under the axe in the two Thána Divisions is just under 19,000 acres, whereas the actual area laid out for exploitation is a trifle under 14,400. This is due to the fact that much of the "Forest Area" is only provisional and will certainly in part be disforested ultimately, consequently the yield must, for safety's sake, be kept considerably below the paper possibility.

38. The expenditure on these operations is exhibited below, from which it will be seen that the cost per acre of laying out the compartments of the year under report is exactly the same as that of the preceding year:—

No.	Range.	Number of Compartments.	Defined by		Aggregate area of Compartments.	Cost.	Average cost per Compartment.	Average cost per Acre.	Remarks.
			Cairns.	Stones.					
	<i>East Thána.</i>				A. g.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
1	Kalyán ...	16	51	1,562	737 20	73 6 0	4 9 4	0 1 7	
2	Bhiwandi ...	20	16	1,229	962 10	65 11 0	3 4 4	0 1 1	
3	Murbád ...	15	46	1,460	735 10	70 9 0	4 11 0	0 1 6	
4	Shahápur ...	48	160	4,428	2,885 2	222 8 0	4 10 2	0 1 3	
5	Khardi ...								
6	Mokháda ...	11	33	913	625 0	40 11 6	3 11 3	0 1 0	
7	Váda ...	33	104	2,746	1,731 20	178 7 3	5 6 6	0 1 7	
	Total ...	143	410	12,323	7,726 22	651 4 9	4 8 10	0 1 4	
	<i>West Thána.</i>								
1	Sálsette ...	10	28	803	334 20	45 7 0	4 8 8	0 1 10	
2	Bassein ...	24	23	1,873	1,164 20	96 0 0	4 0 0	0 1 4	
3	Máhim ...	35	133	2,443	1,782 20	157 14 0	4 8 0	0 1 5	
4	Dáhánu ...	48	141	3,762	2,731 15	221 9 0	4 9 10	0 1 4	
5	Umbargaon ...	13	42	1,126	590 30	55 9 6	4 4 5	0 1 6	
	Total ...	130	372	10,012	6,653 25	576 7 6	4 6 11	0 1 4	
	Grand Total ...	273	782	22,340	14,380 7	1,227 12 3	4 8 0	0 1 4	
	Total during 1892-93 ...	317	991	26,539	17,026 30	1,403 8 0	4 6 10	0 1 4	